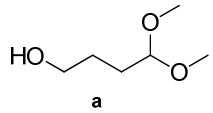
Übungen zur Vorlesung Organische Chemie für das Nebenfach

9. Übung

1. Benennung funktioneller Gruppen:

a) Finden Sie in den gezeigten Molekülen alle Ihnen bereits bekannten funktionellen Gruppen (kreisen Sie diese ein) und benennen Sie diese korrekt.



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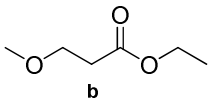

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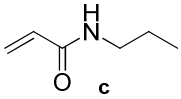

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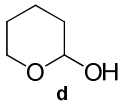

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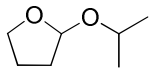

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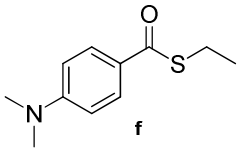

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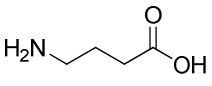

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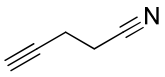

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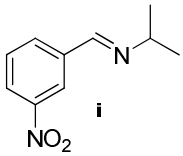

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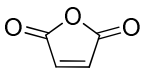
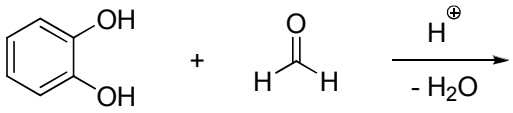
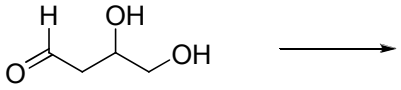


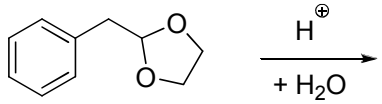
j

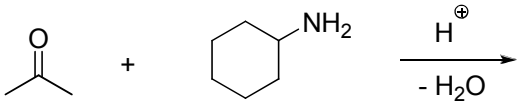
2. Reaktionen von Aldehyden/Ketonen:

Vervollständigen Sie die unten aufgeführten Reaktionen. Welche funktionellen Gruppen reagieren hierbei bzw. welche werden gebildet?



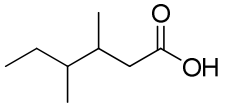


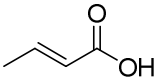


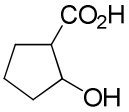


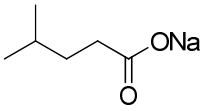
3. Carbonsäuren:

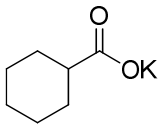
a) Benennen Sie die aufgeführten Carbonsäuren bzw. Carbonsäuresalze nach IUPAC:



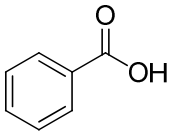








b) Welche der beiden Carbonsäuren ist jeweils stärker sauer? Begründen Sie Ihre Entscheidung anhand der vorhandenen Substituenten.



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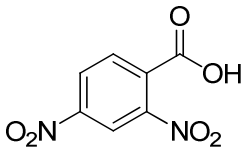

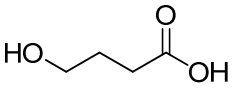

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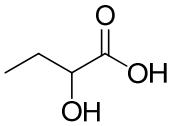

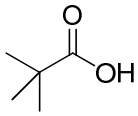

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